1996 Editorial Index

The following listing is a complete editorial index of the articles and departments, arranged by subject, that appeared in 1996. The month and page number of each are provided plus descriptions of feature articles.

Title	Month	Pg.
Automation and controls		
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Servicing Surface-Mount Technology Circuit Boards *Surface-mount electronic components make jobsite troubleshooting and repair difficult.*	Feb.	20
Solving Instrumentation Ground Loop Problems *Unwanted ground loops can cause inaccurate sensor readings.*	Feb.	94
Finding Replacement Semiconductors *Using semiconductor cross-reference manuals to find replacement devices can aid troubleshooting, reduce downtime, and save money.*	April	24
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What to Know about PLC Ladder Diagram Programming *When a PLC is used primarily to replace relays, timers, and counters, it's hard to beat the simplicity and usefulness of ladder diagram programming.*	June	20
What to Know about PID Process Controllers *Hundreds of thousands of PID controllers are used each year to control industrial processes, and it is important to become familiar with their operation.*	July	20
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Use Project Scheduling to Improve Your Profits *You should begin a project schedule as soon as you contract for work.*	Oct.	80B*
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Mating New Variable Frequency Drives to Existing Motors *Motors connected to VFDs receive power that includes a changeable fundamental frequency, a carrier frequency, and very rapid voltage buildup. These factors can have negative impacts, especially when existing motors are used.*	March	36
Premium-Efficiency Motors Slash Electric Costs During Eight-Hr Operation *Premium-efficiency motors replace old, poorly rewound standard motors, resulting in noteworthy savings while operating on a single shift.*	March	70
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Retrofitting VFD Motors at A Waste Water Treatment Plant *Control system for motors proves energy-efficient.*	July	40

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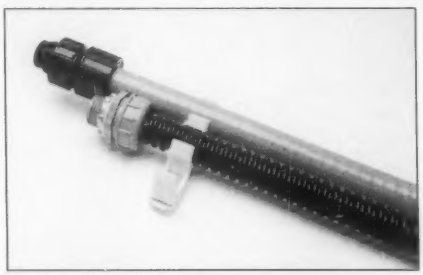

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Resolving a Cable Inductive Reactance Problem *Adjacent cables (six sets of cables per phase) were installed flat without spacing on a steel cable tray. There were extensive current variances between the cables that caused overheating of the outside conductors.*	Feb.	96A*
Sizing a Circuit Breaker *Circuit breakers are designed to carry 100% of their rated current while the NEC dictates an 80% application. Why the difference?*	May	100
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*Appears in special demographic issues only.

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Reliable Power Is Money in the Bank *Electrical design based on total reliability results in smooth operations and client satisfaction at recently constructed bank site.*	Sept.	58
Eleven Practical Tips for Grounding Substations *A properly designed and installed grounding system ensures reliable performance of electrical substations.*	Oct.	40
Focus on the Fundamentals of Shielded MV Power Cable *MV power cables are perceived as commodities, but are all makes alike?*	Oct.	76
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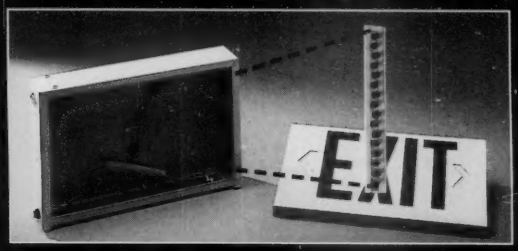

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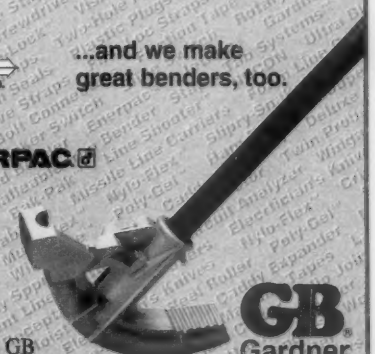

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Hangar Reconfiguration Includes New Telecommunications Wiring *Working on a tight schedule, contractors build a state-of-the-art telecommunications infrastructure to meet present and future data needs.*	Sept.	64H*
Make Sure Your Hardware Meets Category 5 Requirements *You may be misled by product information based on nonstandard testing procedures.*	Sept.	64L*
Shielded or Unshielded; That is the Question *Although STP cable has been viewed as the cable of choice when high transmission rates are required, UTP cable performance is changing this.*	Sept.	64P*
Fiberoptics—Making the Connection *Knowing the construction, installation, and performance characteristics of optical fiber cable is key to a well-functioning telecommunications system.*	Oct.	64B*
Timeless Tips for Pulling and Installing Fiberoptic Cable *These practical, hands-on techniques will help you speed the installation of fiberoptic cables in new and renovation construction projects.*	Nov.	52A*
Exploring the Wide World of Wiring Workstations *Cabling components should be used in making system-specific workstation connections.*	Dec.	32B*
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Understanding Insulation Resistance Testing *How is IR testing done, in view of the fact that at least 80% of electrical maintenance and testing involves evaluating insulation integrity?*	Jan.	50
Testing Large Solid-State Devices *You have to perform a dynamic test on these devices to determine their condition.*	March	20
Assuring Dependability: Field Testing MCCBs *Effective maintenance of molded-case circuit breakers demands careful attention to minor details combined with a thorough testing program.*	Dec.	28

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